

Title (en)
METHOD FOR CARBURIZING STEEL COMPONENTS

Title (de)
VERFAHREN ZUM AUFKOHLEN VON STAHLBAUTEILEN

Title (fr)
PROCEDE DE CARBURATION D'ELEMENTS D'ACIER

Publication
EP 1716267 A2 20061102 (EN)

Application
EP 04800659 A 20041103

Priority
• US 2004036589 W 20041103
• US 53183103 P 20031223
• US 76530004 A 20040127

Abstract (en)
[origin: US2005133119A1] A carburizing process for increasing the hardness of a case region of a steel component. In one form the application includes plating the outer surface of a stainless steel component with nickel prior to carburizing. One component includes a stainless steel object having a hardened case substantially free of continuous phase grain boundary carbides.

IPC 8 full level
C23C 8/02 (2006.01); **C21D 1/00** (2006.01); **C21D 1/06** (2006.01); **C21D 9/00** (2006.01); **C23C 8/80** (2006.01); **C23C 18/54** (2006.01)

CPC (source: EP US)
C21D 1/06 (2013.01 - EP US); **C23C 8/02** (2013.01 - EP US); **C23C 8/80** (2013.01 - EP US); **C23C 28/321** (2013.01 - US)

Designated contracting state (EPC)
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Designated extension state (EPC)
AL HR LT LV MK YU

DOCDB simple family (publication)
US 2005133119 A1 20050623; US 7208052 B2 20070424; CA 2550621 A1 20050728; CA 2550621 C 20161129; EP 1716267 A2 20061102; EP 1716267 A4 20080402; EP 1716267 B1 20150211; EP 2322687 A1 20110518; JP 2007523999 A 20070823; JP 4931601 B2 20120516; US 2007193660 A1 20070823; US 2011017350 A1 20110127; US 2013220488 A1 20130829; US 7648588 B2 20100119; US 8293028 B2 20121023; WO 2005067469 A2 20050728; WO 2005067469 A3 20070531

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